DICE ELECTRONICS

SILVERLINE

DUO

iPod | Satellite

for selected Audi/VW vehicles

Installation Guide/User manual

Made for iPod iPhone

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Warning and safety!

Please read these instructions carefully before proceeding. Failure to follow instructions may result in improper operation or injury. Neither DICE Electronics, LLC. nor Apple Inc., its regional offices, distributors or resellers take any responsibility for any damage or injury as a result of using the integration kit.

- Do not open, disassemble or alter the interface in any way.
- Do not insert anything into the casing.
- Do not cut or try to alter cables in any way and always use the correct connections.
- Only operate unit when stationary or ask passengers to operate it for you.
- Do not allow the Apple iPod to distract you from driving.
- Exercise good judgement and keep your eyes on the road at all times.
- Do not expose unit to extreme temperatures, humidity or shock.
- Keep the unit and iPod away from fluids.
- Keep away from children! - Interface components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a chocking hazard when handled by children.

Congratulations on your purchase!

Thank you for purchasing the DICE integration kit for iPod. Please review our user manual and installation guide before operating the unit. This interface was designed and manufactured to seamlessly integrate with your vehicle's factory entertainment system.

Product registration

We recommend registering your DICE product so you can receive news about important firmware updates and have unlimited access to our online support system.

To register your DICE product, please complete the following steps:

1. Visit http://www.register.diceelectronics.com
2. Look up and save the serial number of the product.
3. Complete the product registration form.
4. Submit the form.
5. Save the registration/support/warranty sheet in a safe place for future reference.

If you are unable to complete the registration via internet, please call DICE Electronics at 1-888-342-3999.

Silverline DUO kit contents

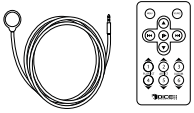
Silverline DUO module

user manual

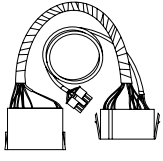
iPod docking cable

Optional accessories (sold separately):

AUX connector



IR Receiver & Remote controller

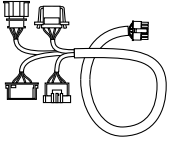


DUO-100-AUD connector

DUO-101-AVW R1 connector

DUO-101-AVW R2 connector

DUO-102-AVW connector



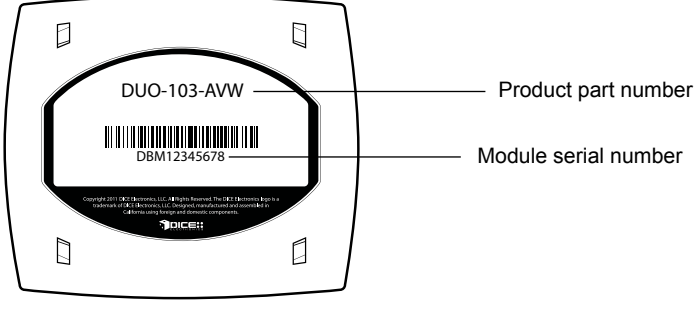
DUO-103-AVW connector

Only one of these cables is included with each kit!

Identifying your DUO kit

DUO-100-AVW, DUO-101-AVW, DUO-102-AVW - These kits work in CDC Emulation mode. Please refer to the CDC Emulation sections of this manual.

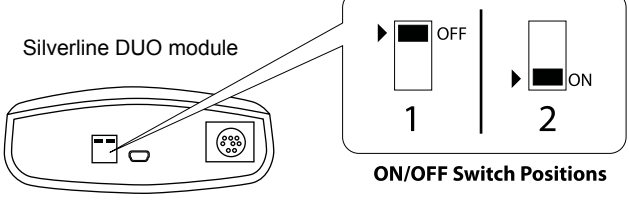
DUO-103-AVW - This kit works in SAT Emulation mode. Please refer to the SAT Emulation sections of this manual. **DIP switch settings also need to be configured for this kit (see next page).**



DIP switch configuration (DUO-103-AVW only)

This setting must be performed for proper functionality of the DUO kit. See pages 23-27 to determine the correct DIP switch setting for your vehicle's specific radio (DUO-103-AVW only).

The configuration switches located on the Silverline DUO module are used to set functionality for various radio models. Refer to pages 23-27 for correct DIP switch settings. Incorrect dip switch settings may cause the DICE interface to not work properly or to not operate at all. **Disconnect the vehicle harness from the module and cycle ignition off for 50 seconds after changing the switches!**



Supported iPod models and firmware version requirements

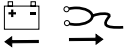
Model	Firmware / OS Version
1G nano	1.3.1
iPod 5G	1.3
2G nano	1.1.3
iPod classic	1.1.2
3G nano	1.1.3
iPod touch	iOS 3.1.3
iPhone	iOS 3.1.3
iPhone 3G	iOS 4.2.1
4G nano	1.0.4
120 GB classic	2.0.1
2G touch	iOS 4.3.4
iPhone 3GS	iOS 4.3.4

Model	Firmware / OS Version
160 GB classic	2.0.4
5G nano	1.0.2
3G touch	iOS 4.3.4
iPhone 4	iOS 4.3.4
4G touch	iOS 4.3.4
6G nano	1.0

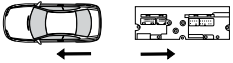
Installation

1. Verify compatibility

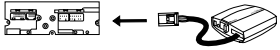
2. Disconnect battery



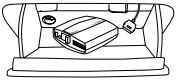
3. Remove radio from car



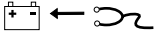
4. Install Silverline DUO cable



5. Route kit to glove box or other accessible location



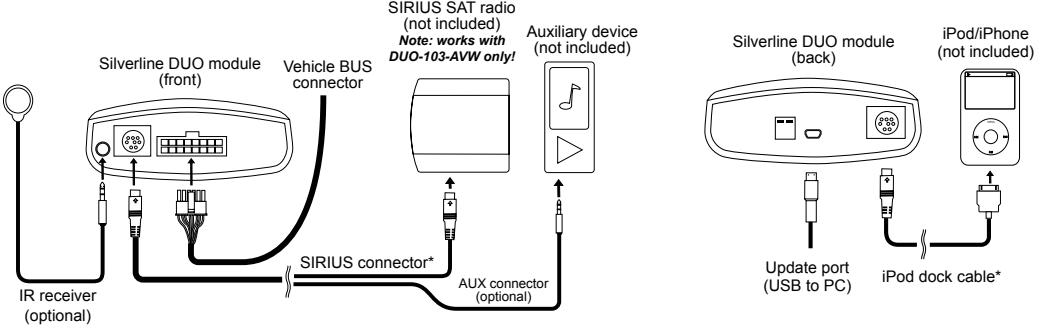
6. Connect battery & test



7. Complete install by re-installing radio

Some radios will enter an anti-theft security mode and will lock requiring the radio's security code to be entered to unlock it. This code can be requested from the vehicle's dealership.

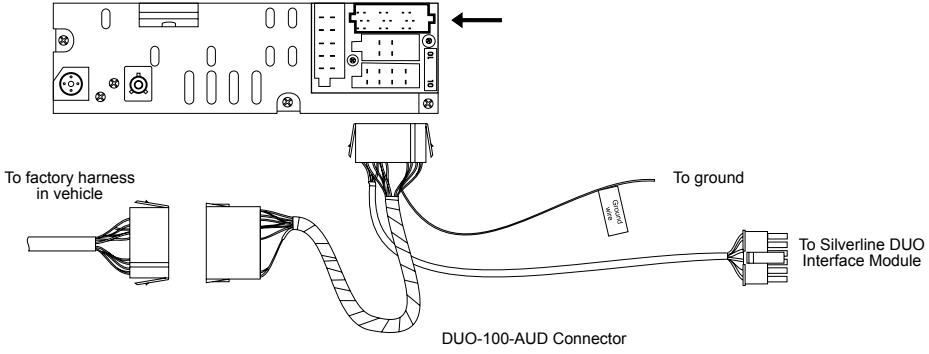
Connection Diagram



*Do not connect the iPod dock cable under any circumstance to the SIRIUS module connector! Improper connection can cause permanent damage to iPod/SIRIUS module.

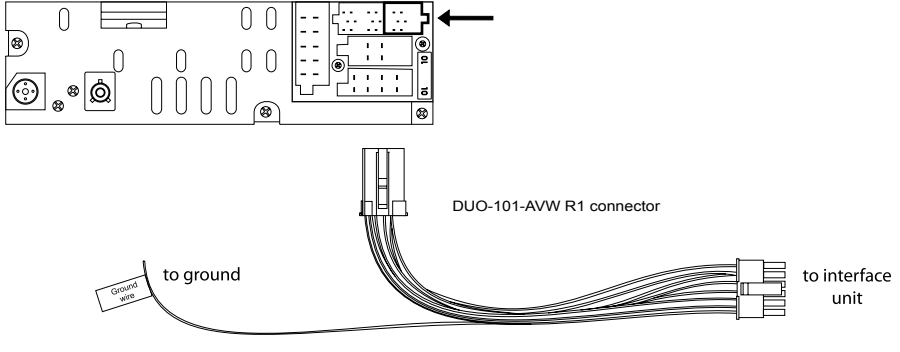
Vehicle BUS Connector - DUO-100-AUD Connector

You can access the CD changer connector located on the back of the radio. Unplug the factory connection if present and plug the DUO-100-AUD connector into the receptacle. The connector should securely lock. Ground wire MUST be connected to a stable grounding point.



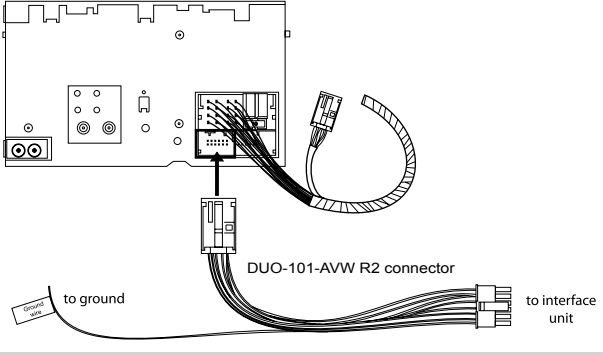
Vehicle BUS Connector - DUO-101-AVW R1 Connector

You can acces the CD changer connector located on the back of the radio. Unplug the factory connection if present and plug the DUO-101-AVW R1 connector into the receptacle. The connector should securely lock. Ground wire MUST be connected to a stable grounding point.



Vehicle BUS Connector - DUO-101-AVW R2 Connector

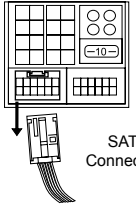
You can access the CD changer connector located on the back of the radio. Unplug the factory connection if present and plug the DUO-101-AVW R2 connector into the receptacle. The connector should securely lock. Ground wire MUST be connected to a stable grounding point.



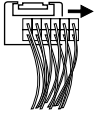
DUO-101-AVW R2 Modification

If vehicle is equipped with factory satellite radio and it is to be retained, the harness modification illustrated below is required. **NOTE:** This modification will only work for VW vehicles.

1 Disconnect main radio harness and locate SAT connector. Remove it from main harness by pressing on the release tab of the SAT connector.

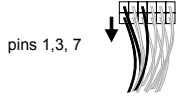


2 Slide out the inner part of the SAT connecor from plastic housing.

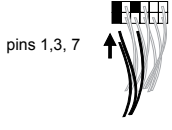


3 Disassemble the DUO-101-AVW R2 connector the same way as the factory SAT connector.

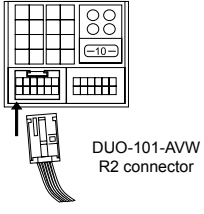
4 Remove the SAT wires from the factory connector by releasing the pins with a small screw driver or ball point pen.



5 Relocate wires to DUO-101-AVW R2 connector keeping the same order and location.



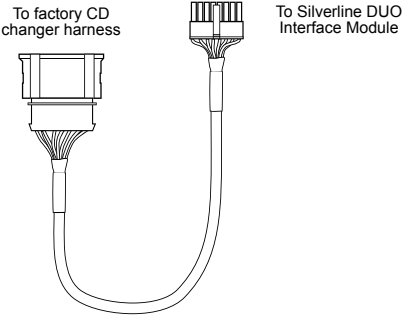
6 Put plastic connector covers back on. Insert DUO-101-AVW R2 connector to factory VW main harness.



7 Connect ground wire to chassis of radio.

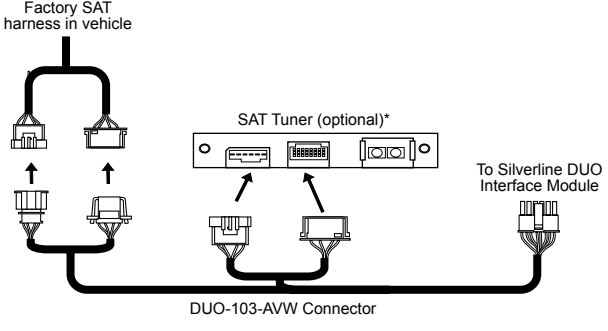
Vehicle BUS Connector - DUO-102-AVW Connector

The connection for this is made at the external CD-changer connection in certain Audi/VW vehicles. On VW models, the connection is usually in the trunk (does not apply to vehicles that came with a CD-changer built in to the radio). For Audi vehicles, the connection is inside the glovebox, standard with navigation radios and/or single-CD radios (also does not apply for vehicles that came a CD-changer built in to the radio). The external CD-changer cannot be retained.



Vehicle BUS Connector - DUO-103-AVW Connector

The factory Satellite tuner connections must be accessed, for which the location varies depending on vehicle (inside trunk panels, under passenger seat, etc). The harness provided with the kit is long enough to reach from these locations. If there is a factory satellite tuner, unplug it's two connections and these can connect into the interface harness. If satellite radio is intended to be retained, connect the other two plugs into the satellite tuner.



*Connect SAT Tuner only if the SAT subscription is activated or will be activated in the near future.

Attention installer! Please read the following!

DICE Electronics strongly recommends that the unit be installed in an easily accessible place!
DO NOT PLACE IT BEHIND THE RADIO!

Whether the unit is professionally or self installed, put the module where you, the end user can get to it easily in the future. (Have the installer show you where the DICE interface module is installed.)

Installing the DICE module behind the radio will make it difficult to:

-Add possible future upgrades, changing software, adding new features, improving operation;
-Access the AUX input on the module to attach any audio device;
-Access the DIP switches located on the module;
-Remove the unit in case of failure.

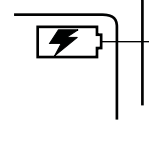
MAKE SURE THAT THE MODULE IS IN AN ACCESSIBLE PLACE!

iPod content browsing

By default, the interface creates a Playlist having a name that is the same as the name of the iPod. This Playlist is the very first on the list of Playlists shown while browsing in Playlist mode. This Playlist contains all the songs on the iPod. Once a Playlist is selected an Artist may be selected within that Playlist using the Artist Mode. Albums by the selected Artist within the selected Playlist may be selected in Album Mode. “ALL ARTIST” and “ALL ALBUM” designate all available content in those categories.

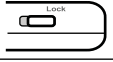
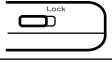
Charging

The interface automatically charges the battery of the iPod when connected and your vehicle ignition key is in the ACC/ON position.

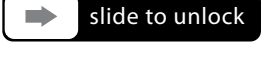


Charging may be indicated by an icon that appears on the upper right corner of the iPod screen. May vary by model.

How the iPod's Hold Button Works with Silverline DUO

	iPod hold ON	iPod hold OFF
		
Radio control	✓	Limited
iPod control	×	✓
	Before connecting the iPod to the DICE module, turn the hold switch **ON** to fully control and browse the songs from the wireless remote. The iPod is locked in this state.	Before connecting the iPod to the DICE module, turn the hold switch **OFF** to fully control and browse the songs from iPod. Browsing capabilities are limited from the wireless remote.

Note: Setting the iPod's hold switch must be done prior to connecting it to the dock cable.
iPod nano 6th generation will always be in locked mode since it does not have a lock switch.



For iPod touch and iPhone, when the screen is not active (as shown on the left), the iPod/iPhone is locked (Press the power button to lock the iPhone/iPod Touch).

SAT Emulation: Basic Operation and Settings (DUO-103-AVW)

- Set your radio to the SAT (satellite radio) source by pressing the radio source selector to select the Silverline DUO.
- Select the DUO audio source: Within the first 10 seconds of selecting the DUO press TRACK UP or TRACK DOWN to cycle through:
  "AUX" or "SIRIUS" - Listen to an auxiliary audio device or listen to and control SIRIUS tuner connected to DUO module. AUX requires optional cable.
  "iPod" - Listen to and control iPod
  "SAT" - Listen to and control factory satellite radio tuner (if available)

  NOTE: To select a different DUO audio source during playback, the head unit must be turned off and back on again!

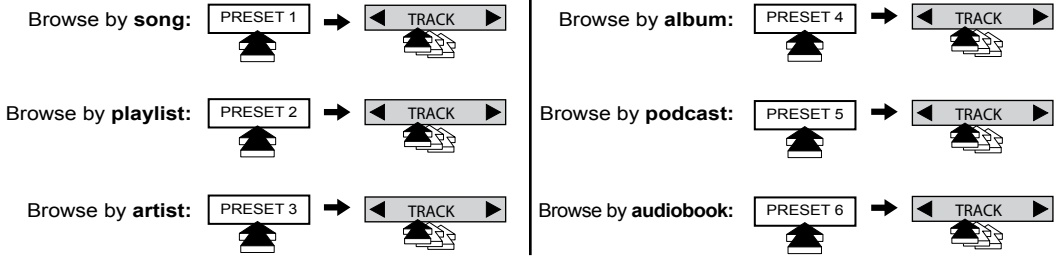
Silverline DUO Interface Settings (available within first 5 seconds of selecting Silverline DUO):
Select PRESET 2 to set charge time after ignition off (for iPod).
Select PRESET 3 to change base volume.
Select PRESET 4 to enable/disable scrolling text.
Select PRESET 5 to set radio line display type.
Select PRESET 6 to view Silverline DUO firmware version.
Select PRESET 1 to apply settings and resume audio playback.

Note: if the iPod is unlocked for direct control, radio control will be limited to songs, playlist and albums. Text display will also be limited to show only current song information. It will not show the name of Playlist / Aritst / Album.

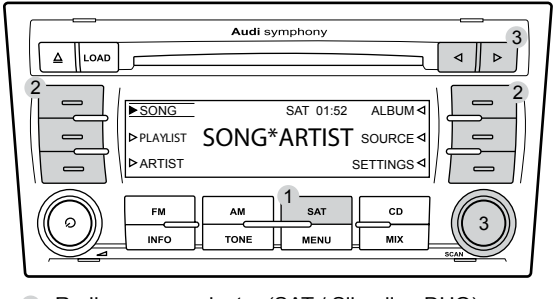
SAT Emulation: Browsing modes

In SAT Emulation, you can browse the content on your iPod by various modes: song, playlist, artist, album, podcast and audiobook. Each PRESET button has a mode assigned to it as illustrated below.

● Press PRESET button to select mode, then use next/previous track buttons to browse contents within the selected mode.

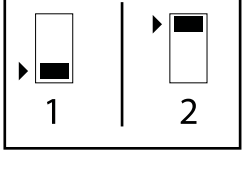


SAT Emulation: Selecting Silverline DUO as an Audio Source on Various Radio Systems - *Audi symphony*

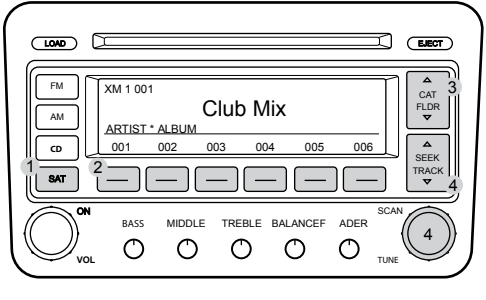


1. Radio source selector (SAT / Silverline DUO)
2. Preset buttons - press to enter: Song / Playlist / Artist / Album / podcast / audiobook modes
3. Track Up / Down

Set DIP switch:

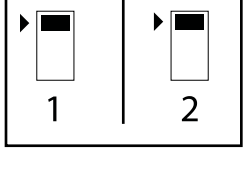


SAT Emulation: Selecting Silverline DUO as an Audio Source on Various Radio Systems - *VW with SAT button*



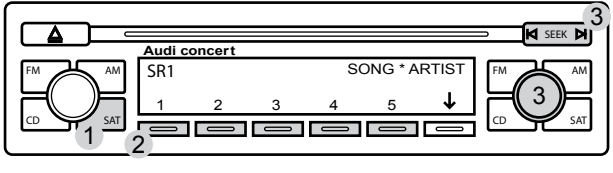
1. Radio source selector (SAT / Silverline DUO)
2. Preset buttons - press to enter: song / playlist / artist / album / podcast / audiobook modes
3. Disc Up / Down
4. Track Up / Down

Set DIP switch:



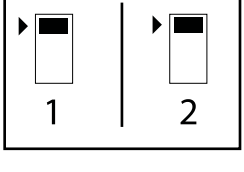
Note: Some versions of this radio unit require preset buttons to be programmed. Use 3 to select one of the modes, then press and hold each preset button for 5 seconds.

SAT Emulation: Selecting Silverline DUO as an Audio Source on Various Radio Systems - *Audi concert*

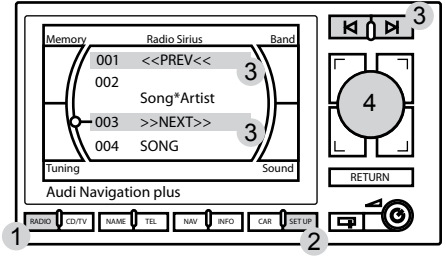


1. Radio source selector (SAT / Silverline DUO)
2. Preset buttons - press to enter: song / playlist / artist / album / podcast / audiobook modes
3. Track Up / Down

Set DIP switch:

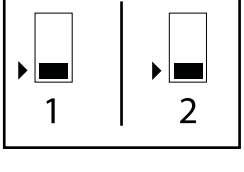


SAT Emulation: Selecting Silverline DUO as an Audio Source on Various Radio Systems - *Audi Navigation Plus*

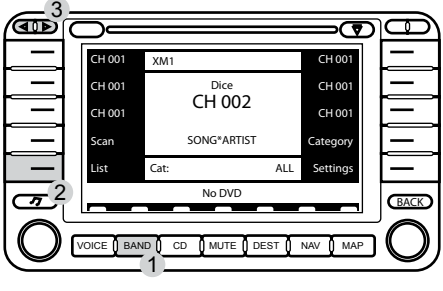


1. Radio source selector (SAT / Silverline DUO)
2. Preset and set the follwing setting:
   Sort stations by: channel number
   Station Info: On
3. Track Up / Down
4. Rotate the knob to select SONG / PLAYLIST / ARTIST / ALBUM / PODCAST / AUDIO-BOOK on the screen. Press the knob to confirm the selected mode.

Set DIP switch:

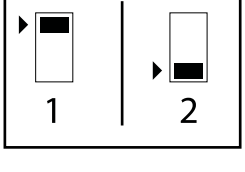


SAT Emulation: Selecting Silverline DUO as an Audio Source on Various Radio Systems - *VW NAV w/ SAT*



1. Radio source selector (XM1 / Silverline DUO)
2. Press to enter Mode selection, then rotate the jog dial (4) to select: SONG / PLAYLIST / ARTIST / ALBUM / PODCAST / AUDIOBOOK
3. Track Up / Down
4. Jog dial used to select SONG / PLAYLIST / ARTIST / ALBUM / SOURCE / SETTING on the screen. Press the knob to confirm the selected mode.

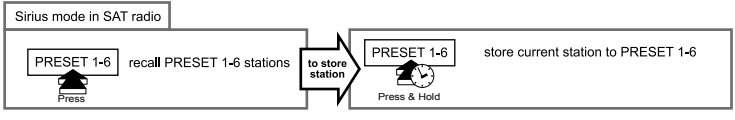
Set DIP switch:



SAT Emulation: Sirius Connect™ Operation

• Stations can be saved to PRESET 1-6 by holding a preset button (1-6).

• TEXT or DISP button will toggle between the text fields.



• If a Sirius Connect compatible tuner is not detected, then either a “No Tuner” vehicle message is displayed, or the SIRIUS option will not be selectable. Please refer to the factory manual of your radio system about operating the Satellite mode.

• Go to Channel 000 to view the Sirius Tuner ID for activation. The 12 digit SID display format is in two halves as SID “123456-” followed by “-789ABC”.

CDC Emulation: Basic Operation and Settings

- Press CD to set your radio to the CDC source (CD changer). Pressing this button repeatedly will cycle through sources: internal CD if available, followed by external CD changer (Silverline DUO runs on the external CDC source in CDC emulation mode).
- Connect the iPod to the iPod docking cable.
- The radio will automatically connect to the iPod and start playing the contents.

DUO Interface Settings

Select DISC 2 to set iPod charge time after ignition off. Use TRACK up/down to cycle settings:

TRACK 1 = *No delay (default)*
TRACK 2 = *1 minute*
TRACK 3 = *5 minutes*
TRACK 4 = *20 minutes*
TRACK 5 = *1 hour*
TRACK 6 = *2 hours*

Select DISC 3 to change base volume (gain). Use TRACK up/down to cycle settings:

TRACK 1 *= min. volume* ***TRACK 5*** *= mid volume (default)* ***TRACK 9*** *= max volume*

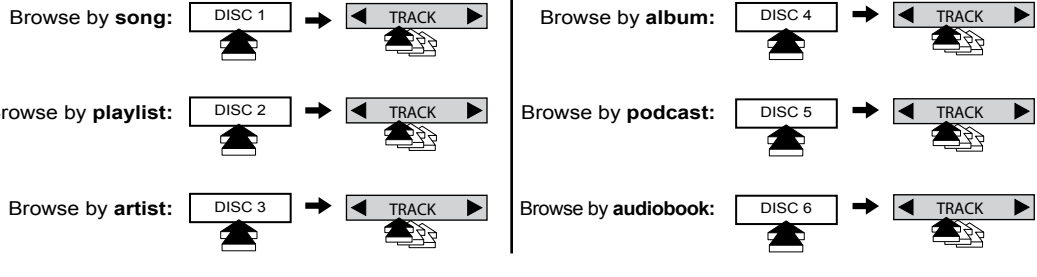
Select DISC 1 to apply settings and resume audio playback. Use TRACK up/down to select DUO audio source:

TRACK 1 *= iPod* ***TRACK 2*** *= Auxiliary audio source*

CDC Emulation: Browsing Modes

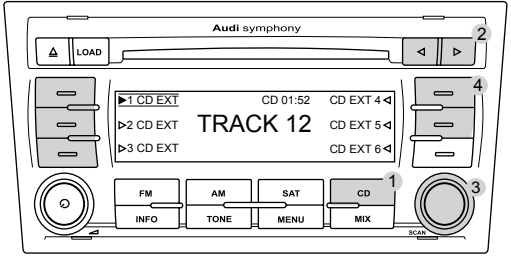
In CDC Emulation, you can browse the content on your iPod by various modes: song, playlist, artist, album, podcast and audiobook. Each DISC button has a mode assigned to it as illustrated below.

- Press DISC button to select mode, then use next/previous track buttons to browse contents within the selected mode.



Note: if the iPod is unlocked for direct control, radio control will be limited to songs, playlist and albums. Text display will also be limited to show only current song information. It will not show the name of Playlist / Aritst / Album.

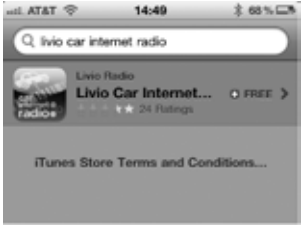
CDC Emulation: Selecting Silverline DUO as an Audio Source



1. Radio source selector (CDC / Silverline DUO)
2. Press for Next / Previous track, hold to rewind or fast forward.
3. Turn to change track
4. Press to change DISC

The Livio Car Internet Radio application (iPhone/iPod touch)

This DICE integration kit includes support for the Livio Car Internet Radio application. It's available on the iTunes® Store, try the FREE app and listen to hundreds of Internet-based radio programming options streamed through the 3G/ Edge or Wi-Fi connection. Download the upgraded Livio Car Internet Radio application for a fee to stream more than 45,000 AM/ FM and Internet-only radio streams from around the world.



Help is available for the Livio Radio application by calling **1-877-97-LIVIO** or going on the web to **http://support.livioradio.com**. You can also visit **http://www.livioradio.com/iphonecarhelp**. If you do not have version 2.2.0 or newer of the Livio Car Internet Radio application, please visit the App Store to download it for free.

Data connection requirements (3G/4G/WiFi)

Users must have an active wireless data connection in order to stream music from the Car Internet radio App while driving. Data connections including "3G" or "4G" through wireless carriers, or a third party wireless Internet access point connected to your mobile device thru WiFi will work. Because this app requires a data connection, it will only work on the iPhone and iPod touch.

Controlling the Livio Car Internet Radio app

The app must be active on the screen of the iPhone or iPod touch. To do so, users can simply tap the Livio icon on their device and it will load. For example, users can tap on the text area of the app to stop or play the selected stream. For additional details or further support, please visit **http://www.livioradio.com/car/**.

Next/previous TRACK buttons cycle between Livio station presets.
DISC (1-6) buttons will select one of the first six Livio station presets.

iPhone 4, iPhone 3GS, iTouch 4th and iTouch 3rd generation devices with iOS 4 (4.3.3) offer limited basic control when an app is running in the background. Text, advisory messages or direct preset tunes therefore are not available. Message on the radio shows “LIVIO (background)” when the app is running in the background.

Please note that although iOS 4 (4.2.1) is supported on iPhone 3 and iTouch 2nd generation, applications do not run in the background. As such, loading the Livio application takes longer than on devices where the app is present in the background.

If your listening experience is interrupted by a call, under most conditions, the application will resume playback at the end of the call.

Music playback applications running on your iPhone are sent to background automatically when the home button of the phone is pressed, but the music playback itself is not stopped.

To resume playback of your iPod music library, stop Livio playback by tapping on the screen below the Livio Radio logo. An icon representing “stop” will show on the main Livio screen. Press the home button to send the application to the background.

A few seconds after this, the iPod music playback application will reinitialize itself and become active again if the iPod was locked when it was connected to the DICE kit. (This is indicated by an Accessory Connected message being shown when the iPod icon is tapped.)

If the iPod was in unlocked state when it was connected to the DICE kit, press the play button on the iPod application.

Text display from the Livio Car Internet Radio app

Text that scrolls across the radio’s screen is associated with the stream shown on the radio and displays current song or station information. **NOTE:** Text display is not available in CDC emulation mode!

Terminate (kill) the Livio Car Internet Radio app

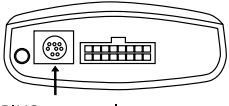
If you need to terminate (kill) the Livio application please follow the steps below:
1. Double-tap on the home button of the iPhone to bring up the list of running applications. If you don't see the Livio Car Internet Radio icon right away, swipe the screen left or right to locate it. Note: If you do not see such task bar but rather a music control popup then you have an iOS device that does not support background run of applications, therefore this section is not applicable to you.
2. Press and hold the icon of the application until a red minus icon shows.
3. Tap the red minus icon shown on top of the Livio Car Internet Radio icon.
4. This will close the application.
5. In a few seconds, the iPod music playback application should reinitialize itself and become active again. This can be verified by going back to the list of running applications and swiping the screen unit the music control section is shown. The iPod application icon next to the music control sections shows that iPod is your audio source.

Livio Car Internet Radio app settings

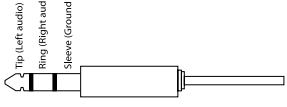
Many radio stations offer lower bitrates. Selecting streams with a lower bitrate will reduce data usage and may reduce stream interruptions during the drive. To adjust bitrates automatically, users can:
Go to the Setting menu of the device, select the Livio Radio settings the change the Maximum Bitrate Filter and set it to 64K. Other settings such as Buffer time and Reliability filter may also help in getting a more stable connection.

Auxiliary audio source (only with optional AUX connector)

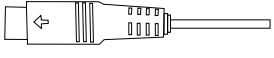
The interface is equipped with a 1/8” AUX jack connection adapter to connect an auxiliary device, such as an MP3 player, DVD player or other audio source.



SIRIUS receptacle



1/8" mini stereo jack



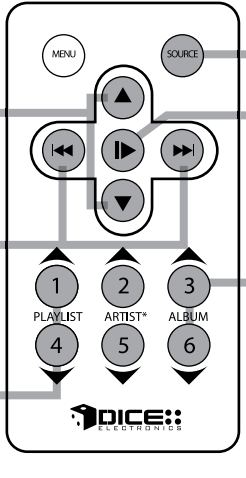
mini DIN connector

The auxiliary audio source can be accessed in both CDC and SAT emulation modes.

To access AUX audio source:

- Plug the mini DIN connector of the AUX adapter cable into the SIRIUS receptacle and connect the 1/8” mini stereo jack to the sound output of your audio device.
-Enter AUX mode (see pg. 21 or pg.29).
- All music playback is controlled through your audio device.

Optional Remote Kit: Functions for iPod/Livio Internet Radio app



▲	**iPod:** Shuffle SONG (within a PLAYLIST) / Shuffle ALBUM / Shuffle off
▼	**iPod:** Repeat one / Repeat all / Repeat off

⏭	**iPod:** Next Track **Livio:** Next station preset
⏮	**iPod:** Previous Track **Livio:** Previous station preset

1	**iPod:** Skip to the next PLAYLIST
4	**iPod:** Skip to the previous PLAYLIST

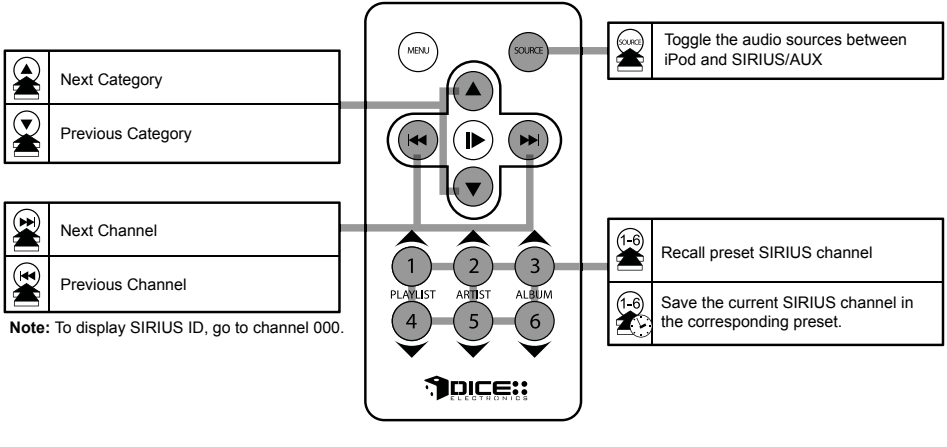
SOURCE	Toggle the auido sources between iPod and SIRIUS/AUX
⏯	Play / Pause

3	**iPod:** Skip to the next ALBUM
6	**iPod:** Skip to the previous ALBUM

Livio: Buttons 1-6 will access station presets 1-6.

* ARTIST is currently not supported

Optional Remote Kit: Wireless Remote Function for SIRIUS



Troubleshooting

Problem	Solution
Cannot select the Silverline DUO interface as an audio source.	Disconnect the vehicle BUS connector from the DUO module for 30 seconds and reconnect. Ensure the vehicle BUS connector is properly connected to the radio and the DUO module. Follow the steps described in the SAT or CDC emulation sections of this manual to access the DUO interface. Make sure ground wire is securely attached to a ground point on the vehicle.
Radio/ steering wheel controls do not operate iPod.	Reset iPod and make sure the most recent iPod firmware is installed. Check vehicle user manual on how steering wheel controls work, long presses may toggle alternate function.
Music is distorted or sound level is too low with iPod connected.	Make sure all EQ and BASS boost options are turned off on your iPod. See pg. 21 (SAT emulation) or pg. 29 (CDC emulation) for additional volume adjustments.
Text is not displaying in SAT emulation.	Use the DISP button on radio/display to toggle text fields. CDC emulation will not display text because the radio does not support text.

Problem	Solution
iPod does not charge.	Check all connections. See if iPod charges while connected to computer or wall charger. You may need to reset the iPod.
Sirius tuner can't be selected.	Ensure the cable connecting SIRIUS tuner is securely connected to the correct receptacle. Only the DUO-103-AVW kit is compatible with SIRIUS tuners.
The radio displays track/channel 99 ("TR 99" or "CH99"). Track up/down controls don't work.	Track 99 indicates that the Silverline DUO is in auxiliary audio (AUX) mode. See pg. 21 (SAT emulation mode) or pg. 29 (CDC emulation mode) for how to enter/exit this mode.
Why does category read "PRESELCTD"?	Playback of content selected on the iPod before connected to the interface continues until new content is selected.

Problem	Solution
Why does the message "iPod UNLOCKED" display on screen?	When the Silverline DUO is playing iPod music in UNLOCKED mode, browsing mode information isn't available so the "iPod UNLOCKED" notification is shown. To view information associated with browsing modes, ensure the iPod's hold button is set before connecting it to Silverline DUO.
Why does the radio display show "EMPTY/STOP" and no music plays?	The iPod has reached the end of a playlist. Please select a new Playlist.

Firmware update

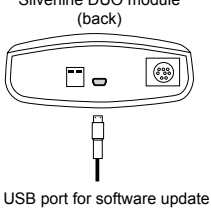
STEP 1: Disconnect the Silverline DUO module from the vehicle.

STEP 2: Download and install necessary software from www.diceelectronics.com

STEP 3: Open software to follow instructions for updating Silverline DUO unit.

STEP 4: Plug in Silverline DUO via mini USB cable and update.

STEP 5: Disconnect and reinstall the unit into the vehicle.



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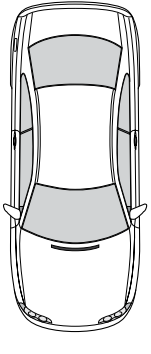
PLEASE NOTE: International customers requiring a product replacement, please contact the dealer your product was purchased from!

Installation notes:

Installed by:	Illustration:
Installed date:	
Other notes:	



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